

[illegible]

A method for determining an HLA genotype of a subject is disclosed. The method comprises (a) isolating template nucleic acid from the subject; (b) amplifying the template nucleic acid to generate sufficient product for each allele of at least one gene locus to be determined; (c) hybridizing the template nucleic acid with an immobilized array of capture oligonucleotides, each having a known nucleic acid sequence of an HLA allele; and (d) determining the particular capture oligonucleotide to which the template nucleic acid hybridizes, thereby determining the genotype of the subject. A number of additional methods that can eliminate or abbreviate additional steps are also described. Moreover, the present invention provides a method for determining tissue compatibility using the determined HLA genotype.